TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-14-03** **Date: 20-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.
Agency	:	KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/637/2013-14
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-01-17
Sample ID No	:	2017-01-14-03/01
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-01-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	816	816	5.4	94.6	90-100
3	20 mm	7287	8103	54.0	46.0	30-70
4	10 mm	4543	12646	84.3	15.7	10-35
5	4.75 mm	2051	14697	98.0	2.0	0-5
6	Pan	303	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-14-03** **Date: 20-01-2017**

Sample ID No : 2017-01-14-03/01

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.6**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.2**	
3	Specific Gravity	**2.61**	–
4	Bulk Density(Loose) (Kg/l)	**1.46**	–
5	Bulk Density(Compacted) (Kg/l)	**1.52**	–
6	Water Absorption(%)	**0.28**	–

Note:

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Prepared by
Harshitha

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-14-03** **Date: 20-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.
Agency	:	KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer Reference	:	EE/BTP/BBMP/KRIDL/WO/637/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-17
Sample ID No	:	2017-01-14-03/02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-01-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	212	212	4.24	95.8	90-100
3	10 mm	2158	2370	47.4	52.6	25-55
4	4.75 mm	2366	4736	94.72	5.3	0-10
5	Pan	264	5000	100	0.0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-14-03** **Date: 20-01-2017**

Sample ID No : 2017-01-14-03/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**8.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.1**	
3	Specific Gravity	**2.6**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.55**	_
6	Water Absorption(%)	**0.25**	_
7	Aggregate crushing Value(%)	**23.1**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**20.6**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-01-14-03** **Date: 20-01-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.

Agency : KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/637/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-01-17

Sample ID No : 2017-01-14-03/02

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 14-01-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	87	87	8.7	91.3	90-100	90-100	90-100	95-100
3	2.36 mm	154	241	24.1	75.9	60-95	75-100	85-100	95-100
4	1.18 mm	123	364	36.4	63.6	30-70	55-90	75-100	90-100
5	600 micron	201	565	56.5	43.5	15-34	35-59	60-79	80-100
6	300 micron	178	743	74.3	25.7	5-20	8-30	12-40	15-50
7	150 micron	192	935	93.5	6.5	0-10	0-10	0-10	0-15
8	Pan	65	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-01-14-03** **Date: 20-01-17**

Sample ID No : 2017-01-14-03/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.01	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Harshitha

FOR CIVIL Pro.

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-12-22-01** **Date: 20-01-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.
Agency	:	KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/637/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-12-16
Sample ID No	:	2016-12-22-01/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-12-16

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.05	–
2	Finess by Air permeablity method (m^2/kg, Min)	285.5	225m^2/kg, Min
3	Density (gm/cc)	3.23	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	205 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-12-22-01** **Date: 20-01-2017**

Sample ID No : **2016-12-22-01/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-14-03** **Date: 20-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.
Agency	:	KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/637/2013-14
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-17
Sample ID No	:	2017-01-14-03/04
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	17-01-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.393	549	658	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

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Prepared By:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-14-03**	**Date: 20-01-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.	
Agency	:	KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.	
Customer's Reference	:	EE/BTP/BBMP/KRIDL/WO/637/2013-14	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	14-01-17	
Sample ID No	:	2017-01-14-03/05	
Sample Type	:	Indus	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	17-01-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.613	578	688	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-02-03-01** **Date: 06-02-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.

Agency : KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/637/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-02-17

Sample ID No : 2017-02-03-01/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/01/2017	06/02/2017	151.22 X 151.29 X 149.06	22878	8.287	292.8	12.8	12.4
2	PCC	M15	30/01/2017	06/02/2017	151.43 X 150.11 X 150.28	22731	8.175	270.5	11.9	
3	PCC	M15	30/01/2017	06/02/2017	151.37 X 150.87 X 151.28	22837	8.162	283.2	12.4	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-02-03-01** **Date: 27-02-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.

Agency : KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/637/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-02-17

Sample ID No : 2017-02-03-01/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	30/01/2017	27/02/2017	150.87 X 151.82 X 150.87	22905	8.176	416.9	18.2	17.9
2	PCC	M15	30/01/2017	27/02/2017	150.87 X 150.98 X 151.22	22778	8.145	400.9	17.6	
3	PCC	M15	30/01/2017	27/02/2017	150.87 X 150.29 X 150.22	22674	8.106	405.9	17.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-02-03-01** **Date: 07-02-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.

Agency : KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/637/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-02-17

Sample ID No : 2017-02-03-01/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	31/01/2017	07/02/2017	149.29 X 151.06 X 150.22	22552	8.187	381.1	16.9	16.8
2	Drain Concrete	M20	31/01/2017	07/02/2017	151.22 X 150.28 X 150.46	22725	8.126	388.6	17.1	
3	Drain Concrete	M20	31/01/2017	07/02/2017	150.87 X 150.04 X 150.82	22637	8.154	373.5	16.5	

Note:
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Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-02-03-01** **Date: 28-02-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drain, Chain Link Fencing and Construction of Gallery to Ply Ground at BEL layout 4th Block near Ganesha Temple Ward no.09, Vidyaranyapura Sub Division.

Agency : KRIDL, #119, 11th Cross Road, Silvestra Arched, 3rd Floor, East Park Road, Malleswaram, Bangalore-03.

Customer's Reference : EE/BTP/BBMP/KRIDL/WO/637/2013-14

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-02-17

Sample ID No : 2017-02-03-01/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	31/01/2017	28/02/2017	150.17 X 150.28 X 150.58	22568	8.176	537.1	23.8	23.5
2	Drain Concrete	M20	31/01/2017	28/02/2017	150.77 X 151.43 X 151.98	22831	8.199	536.5	23.5	
3	Drain Concrete	M20	31/01/2017	28/02/2017	150.88 X 151.02 X 151.76	22786	8.139	528.6	23.2	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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